

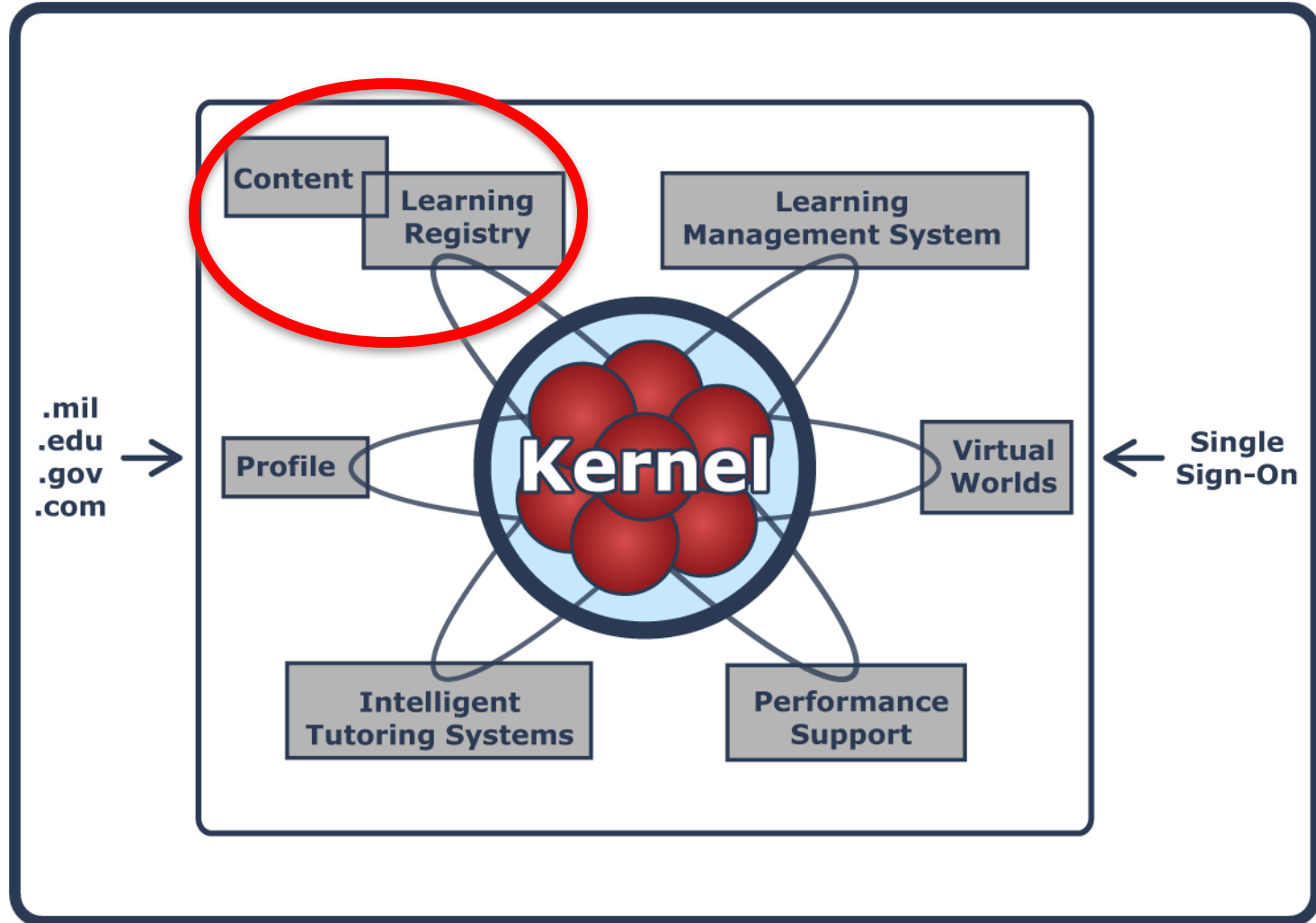


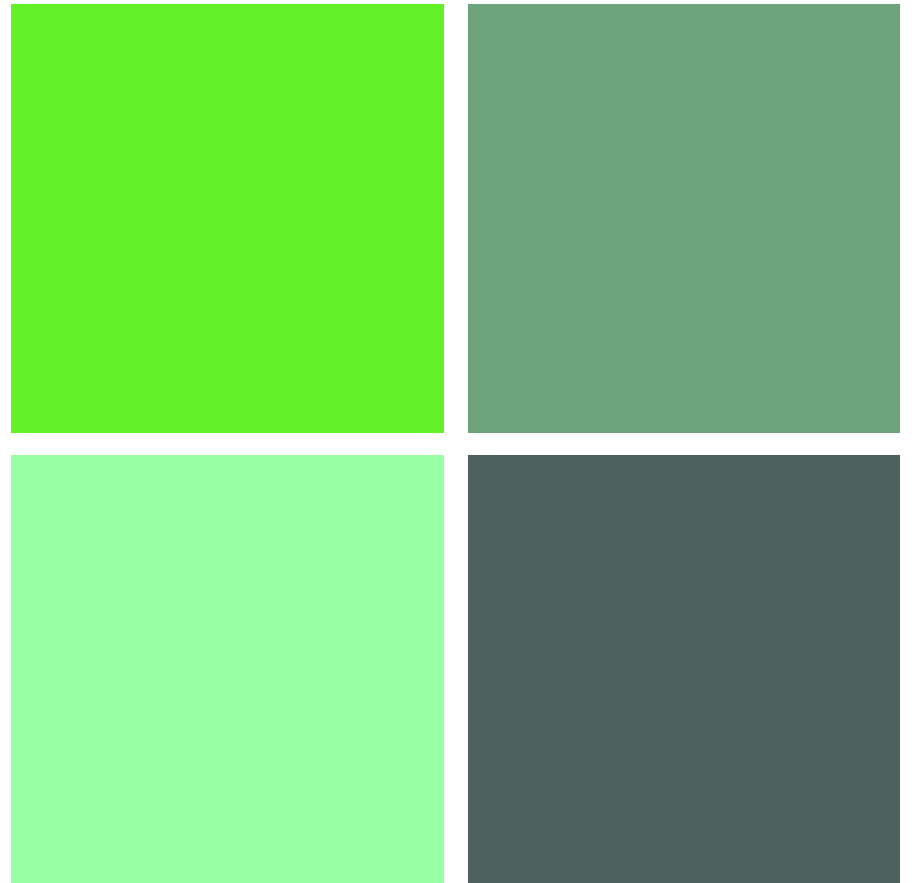
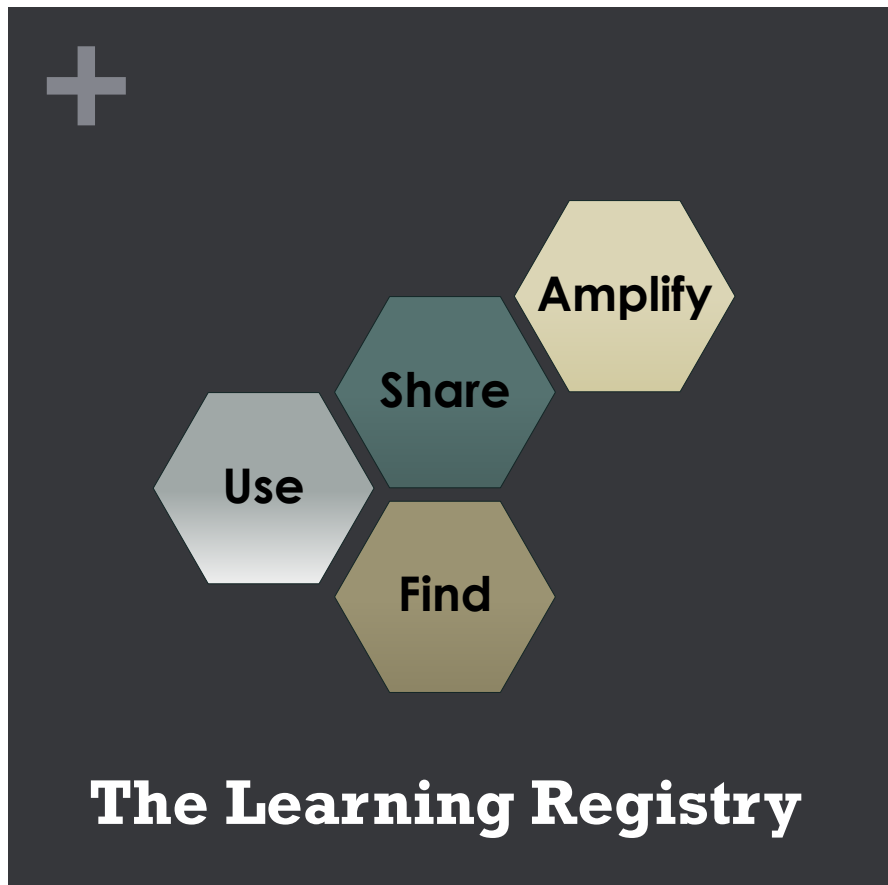
The Learning Registry

Collaboration between OSD Training Readiness &
Strategy (TRS) & Department of Education

Paul Jesukiewicz
Principal
Booz Allen Hamilton

+ Learning Ecosystem



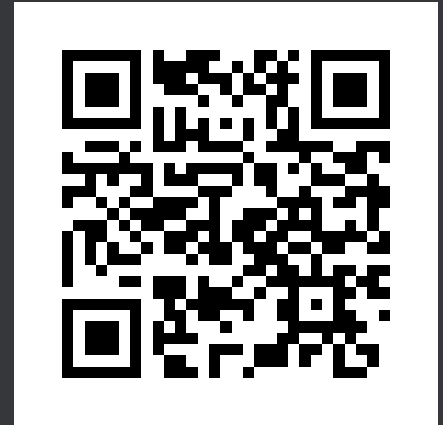


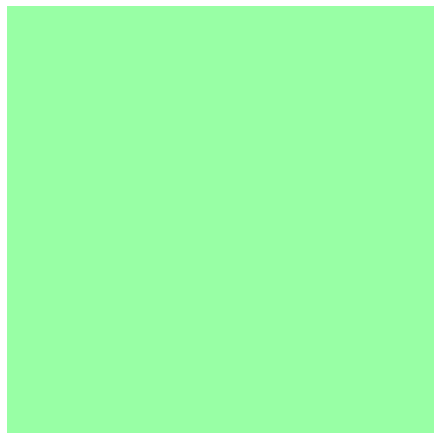
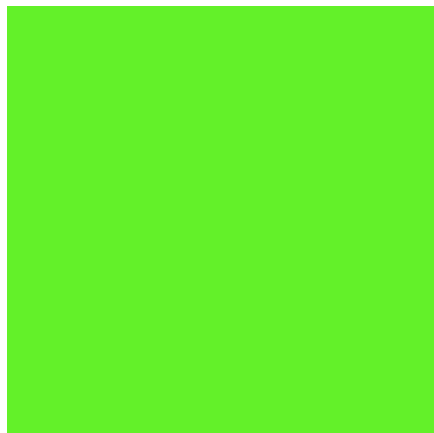
Social Networking for Metadata

@learningreg


+ #learningreg

learningregistry.org






The Problem



***An abundance of content,
a lack of data sharing,
+ lost data exhaust,
limited feedback,
a legacy environment.***

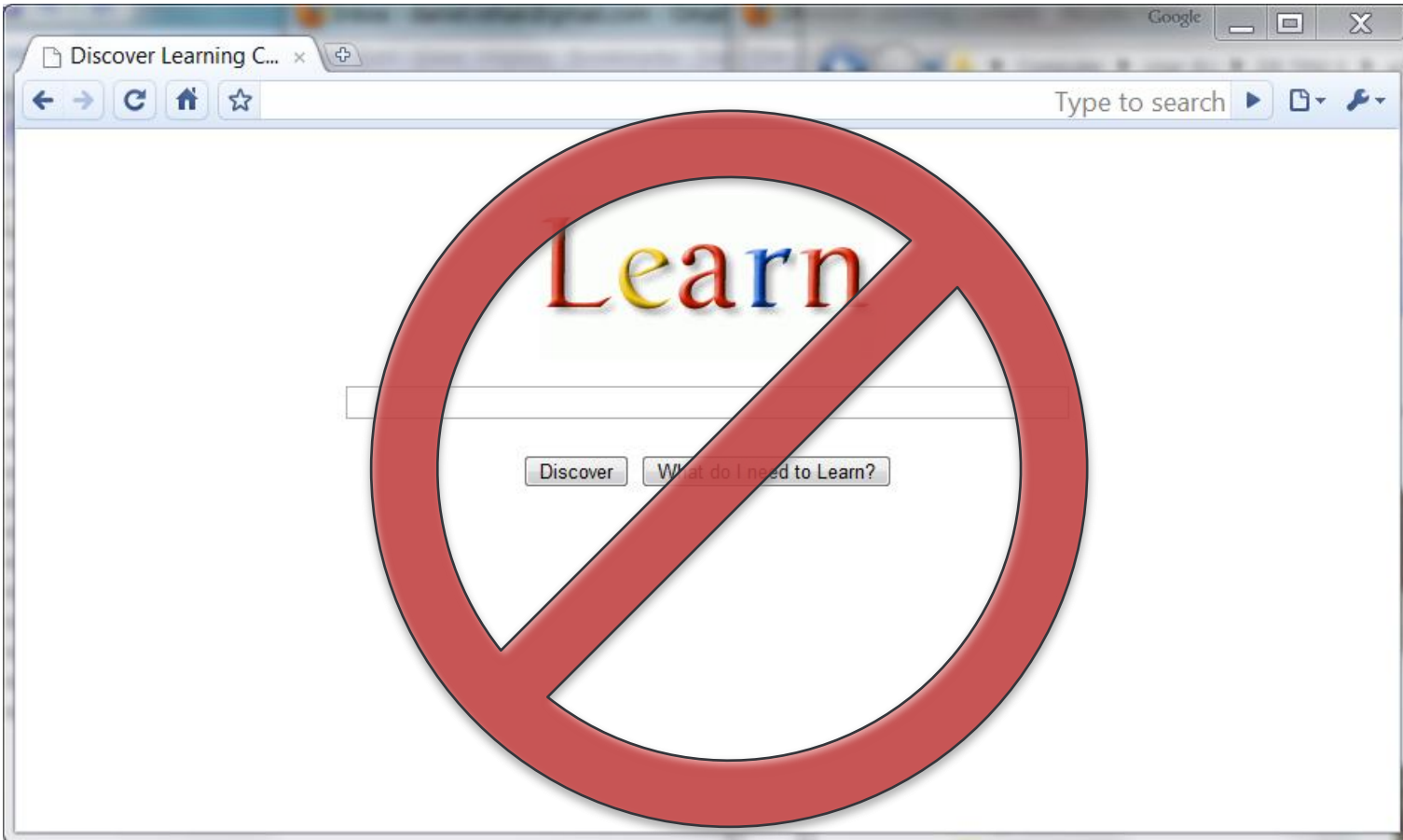
We don't know what content has a positive effect on learning.




***A concept,
a research project,
a community project,
+ a codebase,
a public social metadata
distribution network.***

What is the Learning Registry?

+ Enough Custom Portals

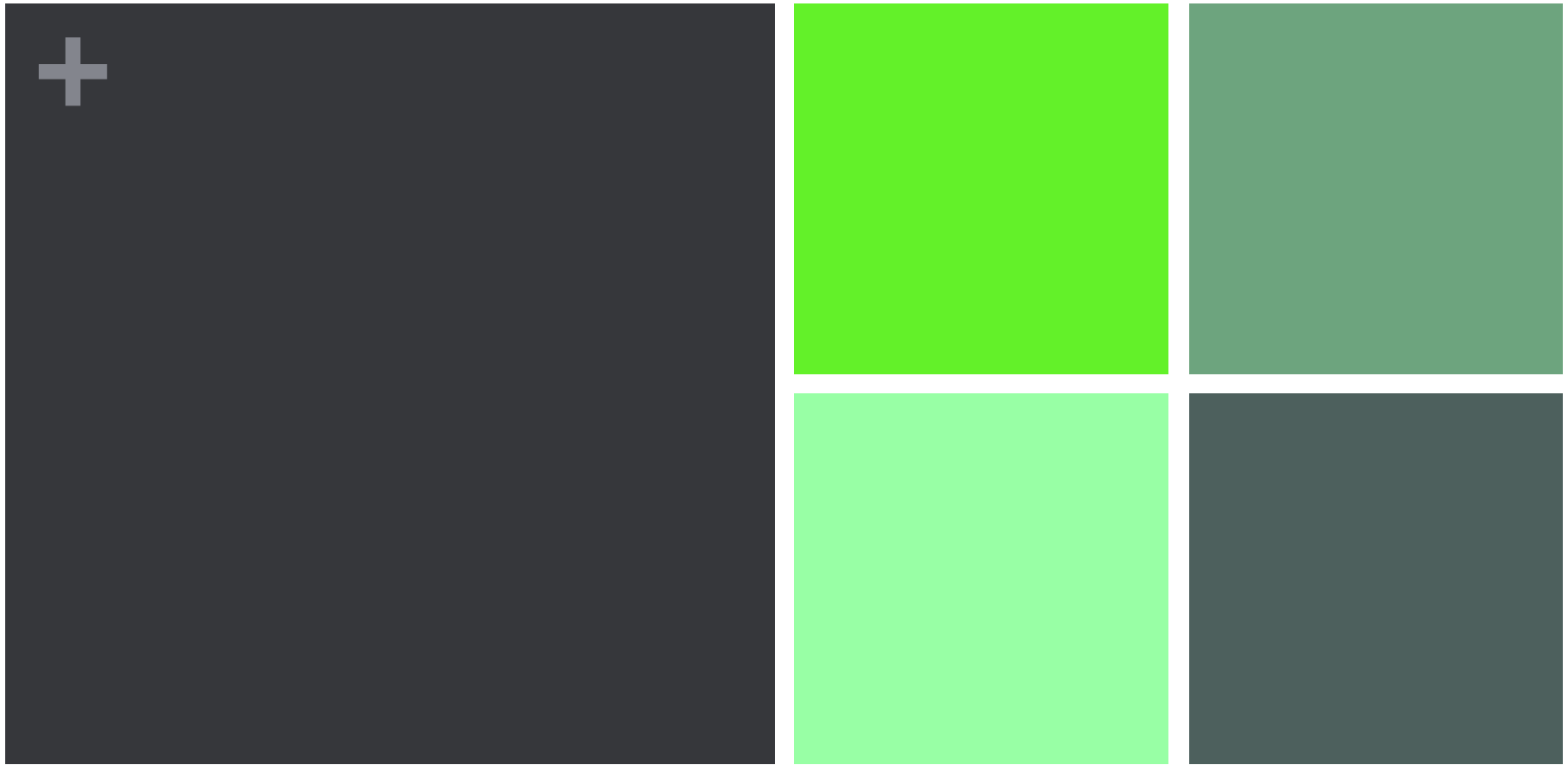




***We want to enable a
learning layer on Web 2.0***

+

Innovate the infrastructure, not the interface.



The Learning Registry Approach

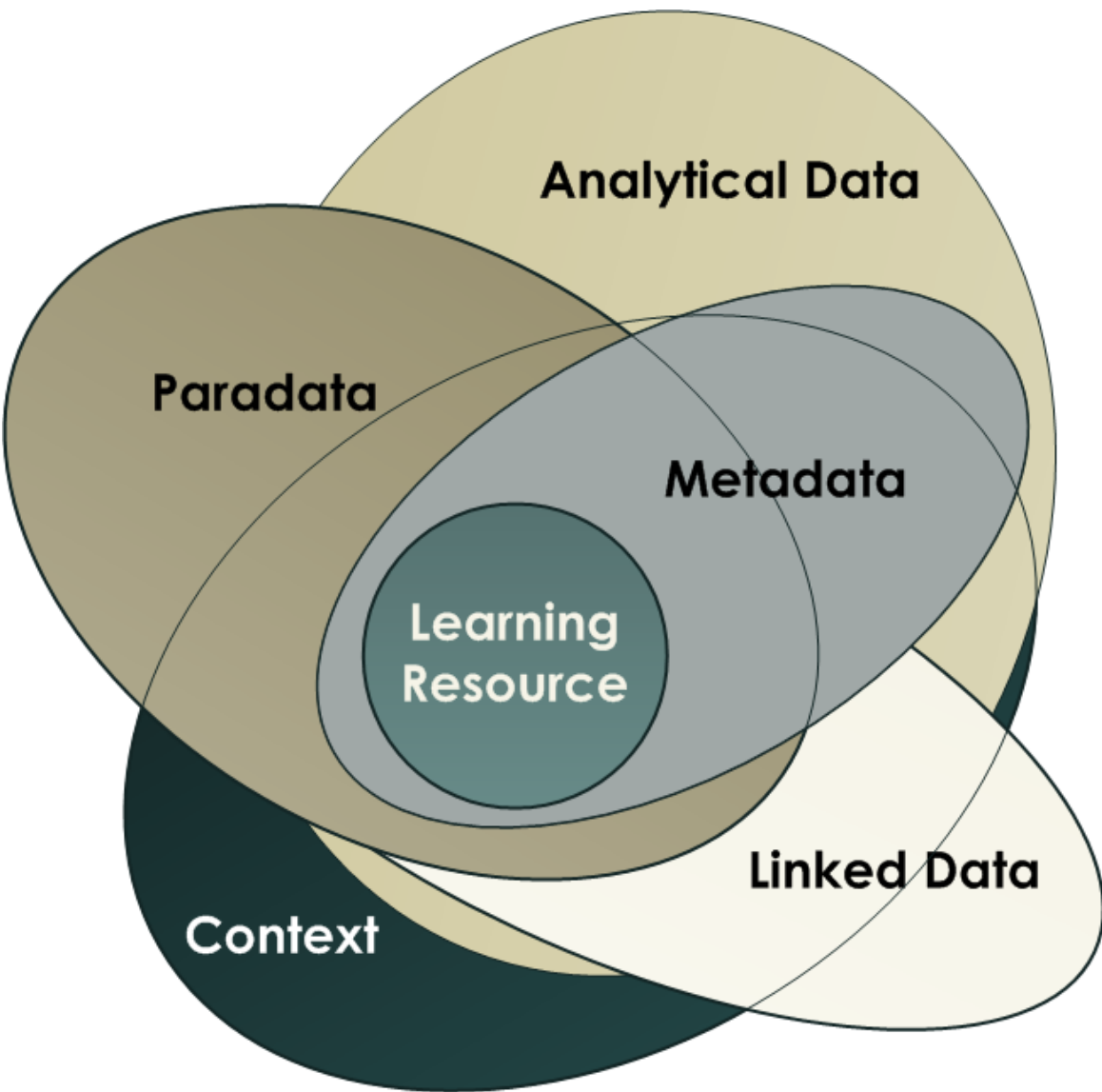


Be Enabling



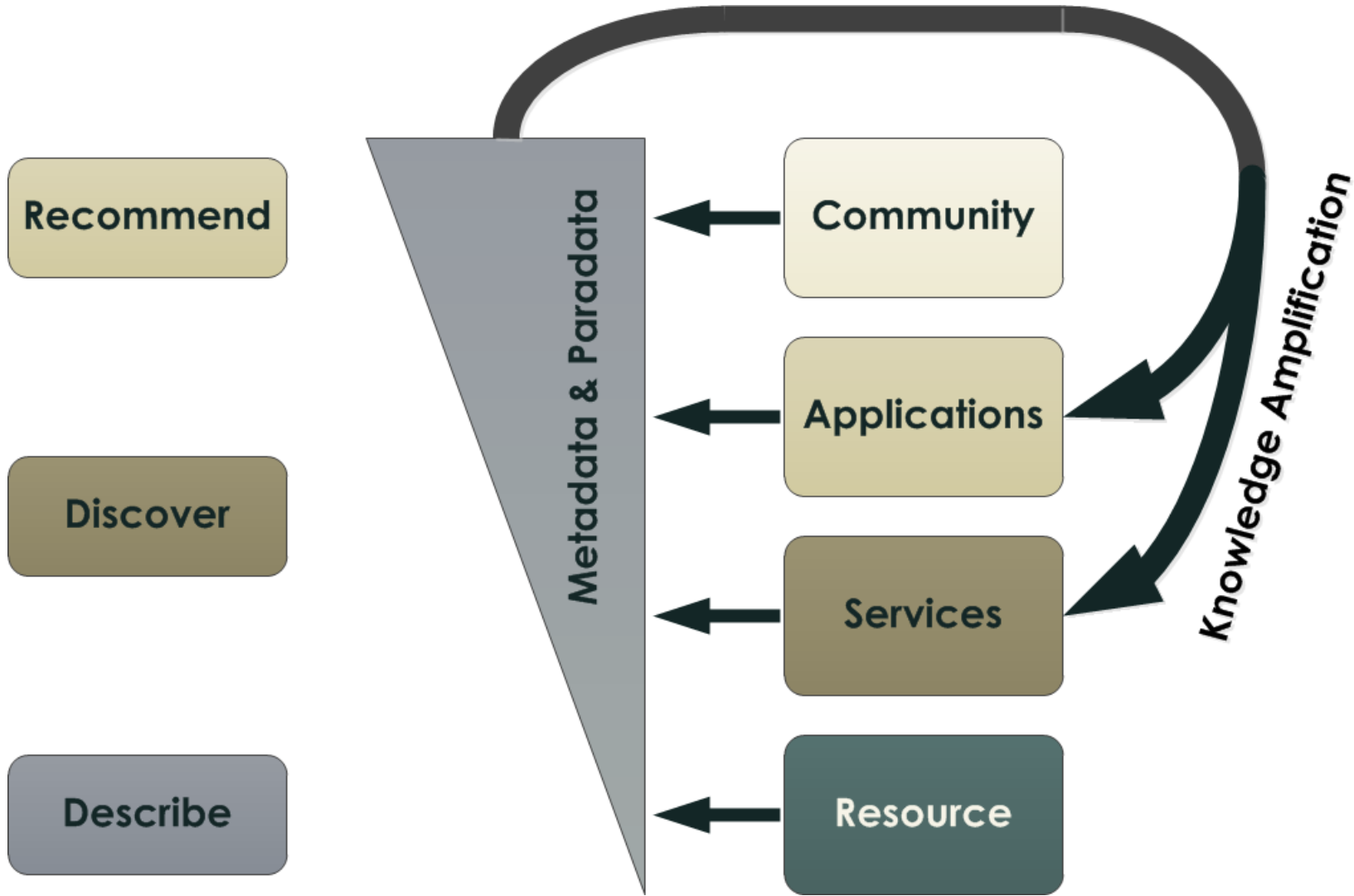
- Provide capabilities not solutions
- Let anyone participate
- No default “winners”
- No single point of failure or control
- Anyone can provide information on anything
- Identity and trust exist
- Re-aggregation and sharing is natural
- Usage/utility is shared
- As simple as possible

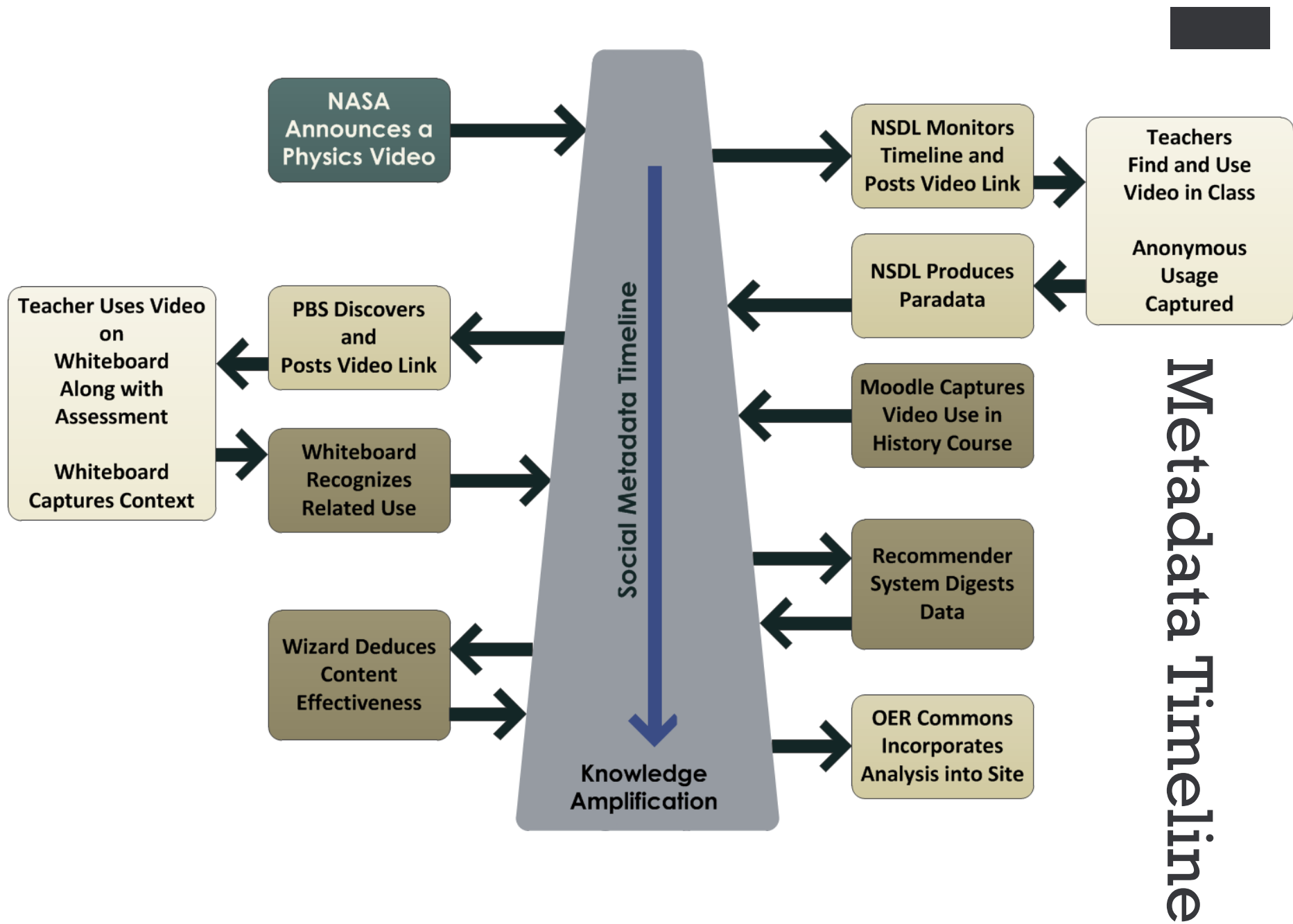
■ + Resources, Context, Data



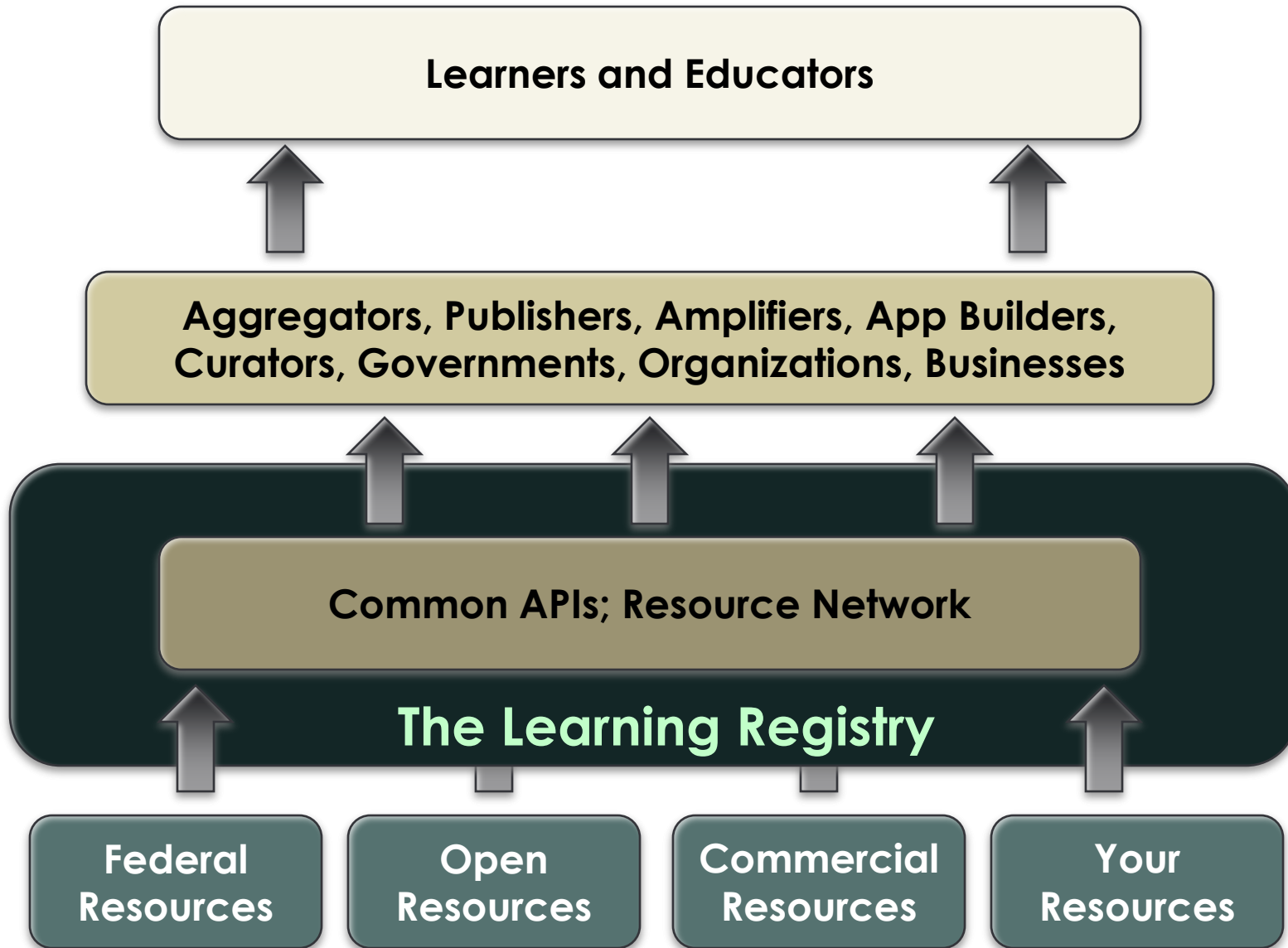
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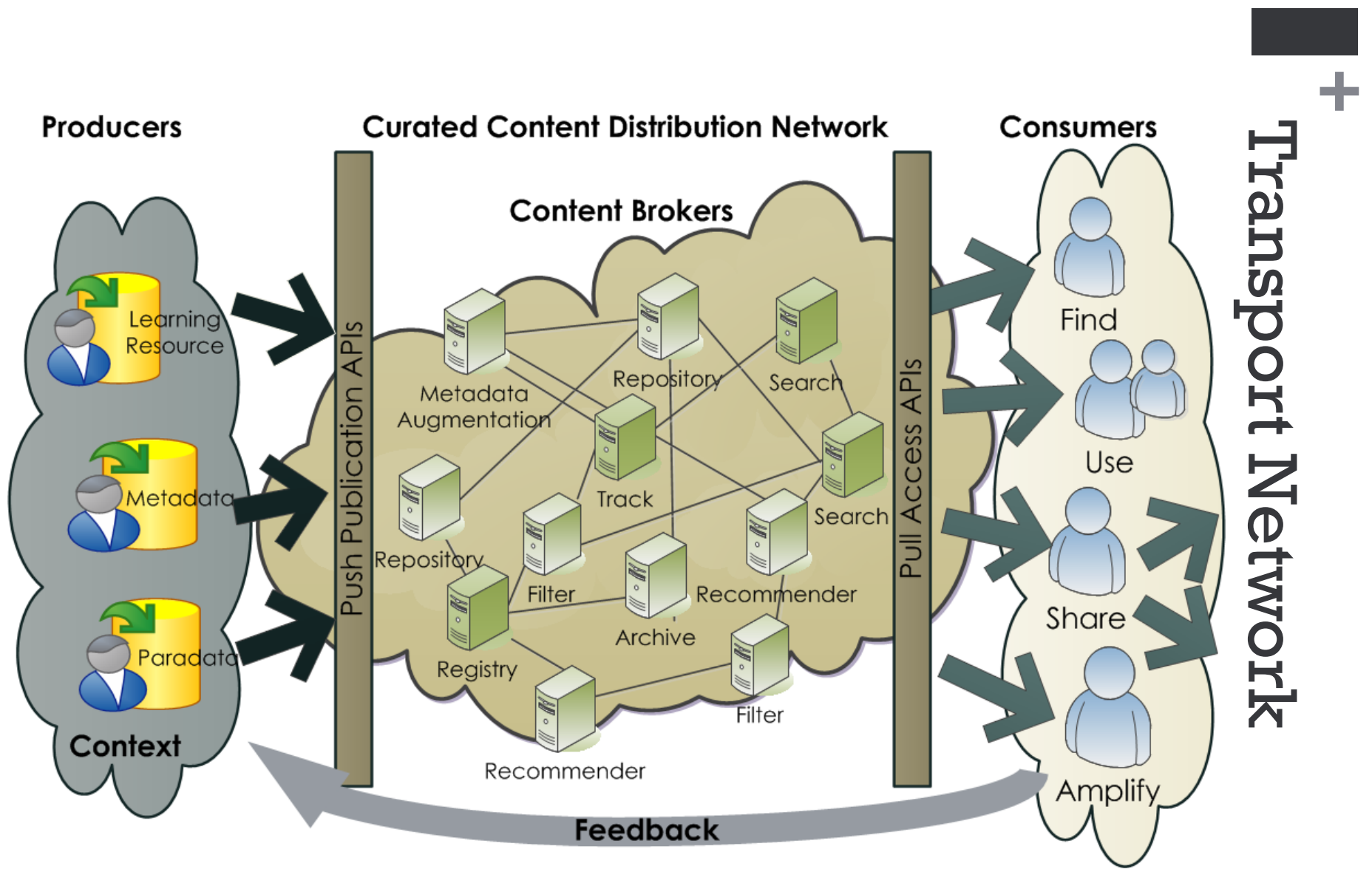
Knowledge Amplification





Learning Registry Stack







Learning Registry Resource Data



- Resource Locator (resource identity: URL)
- Who's providing the data (identity: submitter, owner, curator)
- Terms of service (URL, optional)
- Digital Signature (OpenPGP, for trust)
- Hashtags (recommended)
- Formal “metadata” (optional, any schema)
- Workflow stuff (message IDs, versions, times, transit nodes)
- In JSON, Document-oriented, schema-free database

+ Learning Registry APIs

- Publish (push from user)
 - Publish
 - SWORD
 - 3rd party OAI-PMH Utility (We don't harvest)
- Access (pull to get data)
 - Obtain (by ID, record, by URL)
 - Harvest (JSON or OAI-PMH)
 - Slice (subset by identity, schema, keyword)
- Distribute (node-to-node, with regex “filtering”)
- Admin (status, discovery, ...)
- NO Search/Query API!



Prototype Implementation

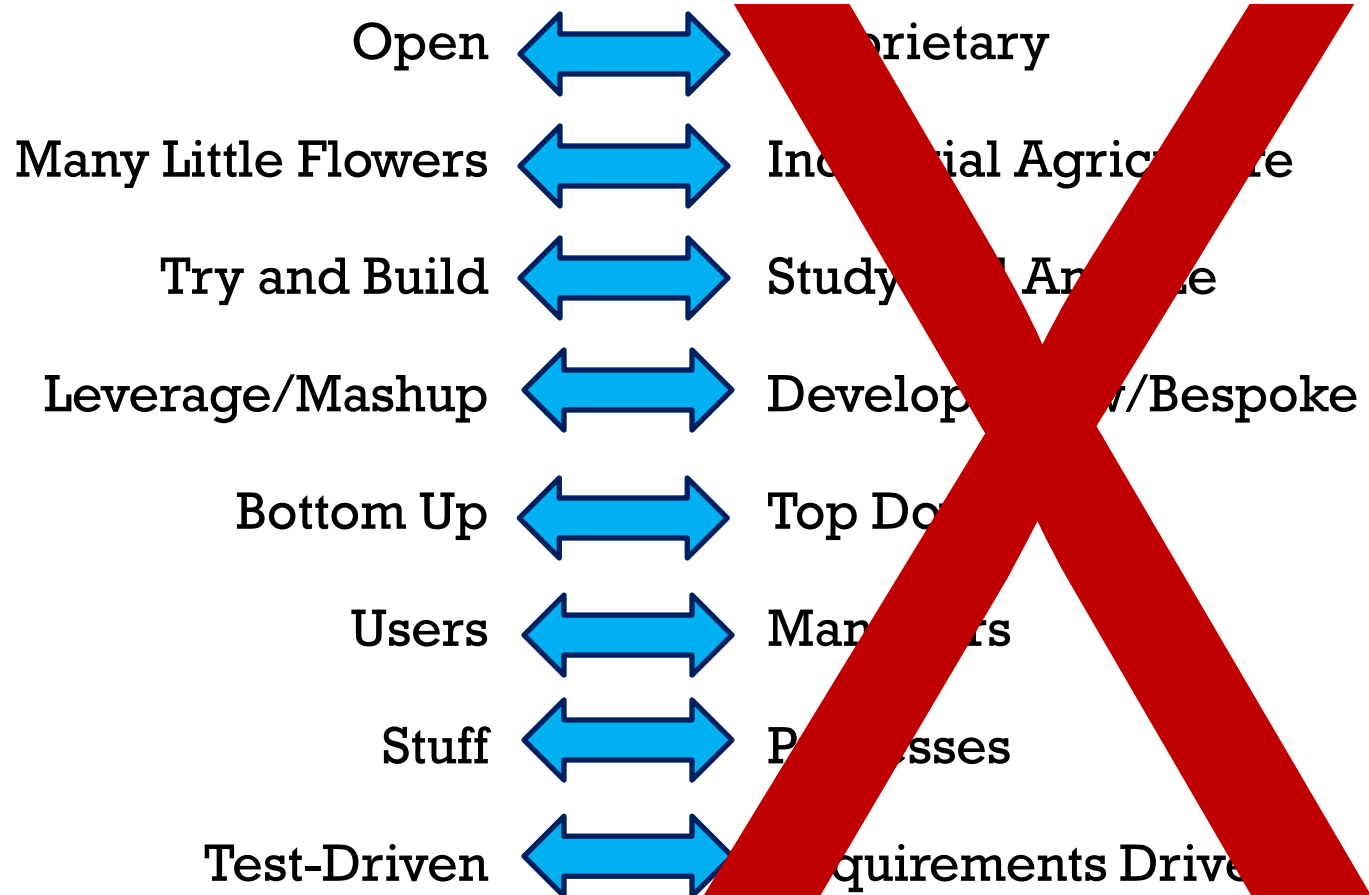



- RESTful APIs
- Data-driven policies and descriptions
- CouchDB (NoSQL) storage and master-master replication
- Map-Reduce views
- Python Apps layer
 - Abstracts Couch
- Test and development network
- Public production network; Amazon EC2 hosted



Our Process

+ Design Principles





*Open processes,
open data,
+ open products,
open standards.*

Openness.

+ Participation



- Be Part of the Community

- Be a provider (learning resources, metadata, paradata, analytic data)
- Be a consumer
- Help amplify
- Operate a node
- Build value-added services

- Help Build the Model and Network


- Discuss on open fora
- Build and test tools, APIs, specifications



Learning Registry Plugfest 1



- Held June 15th and 16th
- National & International Participation from Government, Industry, and Academia
- Hands-on coding, integration with LMS, authoring tools, registry and repository environments
- Plan to have Version 0.5 of code completed by Sept 2011



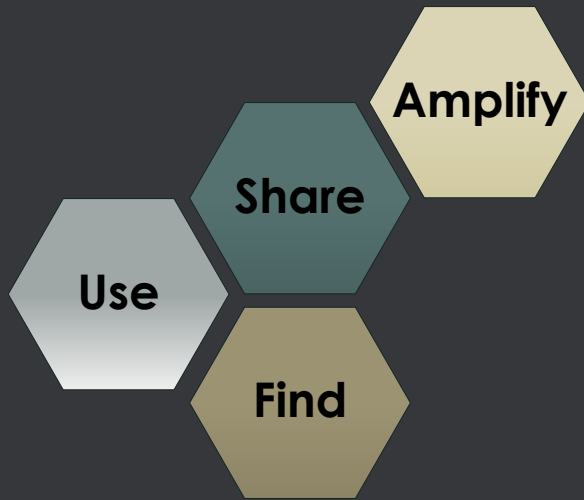
***We'll welcome anyone who
wants to make a difference.***

+

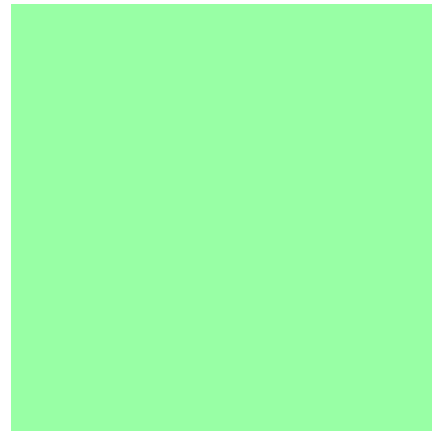
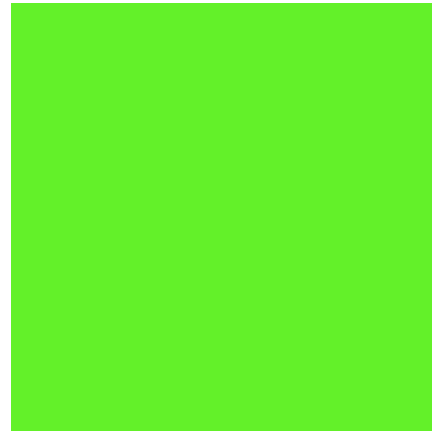
A Do-ocracy: Just Do It.

Federated Community





The Learning Registry



Thank You

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learningregistry.org